

Remarks

The Office Action dated July 9, 2003, has been received and carefully noted. The amendments made herein and the following remarks are submitted as a full and complete response thereto.

Claim 1 has been amended. Applicants submit that the amendments made herein are fully supported in the specification and the drawings as originally filed, and therefore no new matter has been added. Accordingly, claims 1-11 are pending in the present application and are respectfully submitted for consideration.

Claims 1-11 were rejected under 35 U.S.C. § 102(e) as being anticipated by Kurumada (U.S. Patent No. 6,366,264 B1). Applicants respectfully submit that each of claims 1-11 recites subject matter that is neither disclosed nor suggested by the cited prior art.

Claim 1 recites a heat-dissipation structure of a plasma display panel device including a plasma display panel and a drive circuit for driving the plasma display panel, having a plurality of circuit boards, and electronic components making up the drive circuit and mounted separated on the plurality of circuit boards. The plurality of circuit boards are arranged approximately in parallel to each other.

Accordingly, at least one of the essential features of the present invention is a plurality of circuit boards arranged approximately in parallel to each other. As such, the present invention results in the advantage of performing efficient heat-dissipation in a plasma display panel device.

It is respectfully submitted that the prior art fails to disclose or suggest the elements of the Applicants' invention as set forth in claims 1-11, and therefore fails to provide the advantages which are provided by the present application.

Kurumada discloses a structure for mounting a driver module of a flat panel display. Figure 1 of Kurumada shows a PDP glass panel 10 mounted on the front face of the PDP and supported by a metallic chassis 11 located behind the panel 10. The front end of a flexible printed circuit (FPC) 12 is mounted to the front side of the PDP glass panel 10 and connected with a number of electrode arrays in the glass panel 10. The portion of the flexible printed circuit 12 that is mounted to the front side of the PDP glass panel 10 extends parallel to the panel 10. Outside of the lateral side of the glass panel 10, the flexible printed circuit 12 is bent with a minimum diameter.

In addition, a circuit board 16 is mounted adjacent to the end of the flexible printed circuit 12 extending from the PDP glass panel 10 behind the metallic chassis 11. A pressure contact connector 17 is mounted on the circuit board 16. The IC chip 13 and the chip capacitor 15 are main components of the driver circuit module for applying a driving voltage to the PDP glass panel 10. Moreover, the IC chip 13 abuts against the metallic chassis 11 via the heat-dissipating sheet 14 and so the chassis 11 acts as a heat-dissipating plate for the IC chip 13.

Applicants respectfully submit that each and every element recited within claims 1 and 9 is neither disclosed nor suggested by Kurumada. In particular, Applicants submit that the heat-dissipation structure of a plasma display panel device as recited in the present application is clearly distinct from that which is illustrated by the cited prior

art. Specifically, it is submitted that the cited prior art fails to disclose or suggest the limitation of a plurality of circuit boards arranged approximately in parallel to each other with respect to claim 1, and fails to disclose or suggest the limitation of "electronic components making up the drive circuit and mounted separately on both faces of a circuit board" with respect to claim 9.

As mentioned above, Kurumada merely discloses a flexible printed circuit 12, circuit board 16, and an IC chip 13 with a chip capacitor 15 connected to the flexible printed circuit 12 only. Firstly, Applicants submit that the flexible printed circuit 12 of Kurumada is neither comparable nor analogous to any part of a plurality of circuit boards as recited in the claimed invention. In fact, Applicants submit that the flexible printed circuit 12 of Kurumada is not a circuit board. Secondly, the flexible printed circuit 12 and the circuit board 16 of Kurumada are arranged perpendicular to each other. In other words, the flexible printed circuit 12 and the circuit board 16 of Kurumada are disposed right-angled to each other. In contrast, the present invention as provided in claim 1 recites "a plurality of circuit boards ... wherein said plurality of circuit boards are arranged approximately in parallel to each other." In addition, it is submitted that Kurumada fails to disclose or suggest the limitation of "electronic components making up the drive circuit and mounted separately on both faces of a circuit board" as recited in claim 9 of the present application. Accordingly, Applicants submit that Kurumada fails to disclose or suggest each and every element recited in claims 1 and 9 of the present application, and therefore each of claims 1 and 9 is allowable.

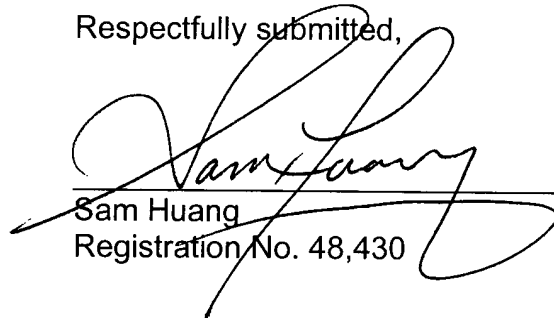
As for claims 2-8, 10 and 11, it is submitted that each of claims 2-8, 10 and 11 depends from independent claims 1 and 9, respectively. Therefore, Applicants submit that each of claims 2-8, 10 and 11 is also allowable due to its dependency from allowable claims 1 and 9, respectively.

In view of the above, Applicants respectfully submit that each of claims 1-11 recites subject matter that is neither disclosed nor suggested in the cited prior art. Applicants also submit that the subject matter is more than sufficient to render the claims non-obvious to a person of ordinary skill in the art, and therefore respectfully request that claims 1-11 be found allowable and that this application be passed to issue.

If for any reason, the Examiner determines that the application is not now in condition for allowance, it is respectfully requested that the Examiner contact the Applicants' undersigned attorney at the indicated telephone number to arrange for an interview to expedite the disposition of this application.

In the event this paper has not been timely filed, the Applicants respectfully petition for an appropriate extension of time. Any fees for such an extension, together with any additional fees that may be due with respect to this paper, may be charged to counsel's Deposit Account No. 01-2300, **referencing docket number 107156-00069.**

Respectfully submitted,



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